

IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS FOR CEMENT MIXES

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Aggregate containing cement mixes, such as grouts, mortars, and concrete for use in construction or for cementing brick, cement block, stucco and even ceramic tiles. These mixes comprise: a) hydraulic cement; b) one or more flocculating agents, selected from sodium alginate, water soluble cellulose ether, polyacrylate, polyacrylamide, guar gum, gelatin, chitosan, dextrin and dialdehyde starches; c) one or more water reducing agents selected from sulphonated naphthalene/formaldehyde condensates, sulphonated melamine/formaldehyde condensates, lignosulphonates, modified lignosulphonates, salts of polyhydroxy carboxylic acids, polyhydroxy carboxylic acids, glucosaccharides, copolymers of linear or cyclic C4-6-olefins and unsaturated ethylenic dicarboxylic acids; d) aggregate; and e) water.

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84-028263/04 SANDOZ AG 03.10.84-US-657307 28/2	A93102 1+JP-125353) (16.01.86) E64-012039	SANO 20.06.84 'W0 8600-291-A Colab-24/6 C04b. Cement mix for mortars of improved storage ability - comprises hydraulic cement, hydroxypropyl-methyl cellulose, lignosulphonate, aggregate and water E1BE CM DE FR GB IT SE) N(AU BR JP KR NO)	A(3-A, 3-A4A, 5-E2, 10-E12A, 10-U21A, 12-RA) (2-D14D) after mixing without affecting the other properties. The mortar has excellent adhesive properties to brick or block, adsorption of water from the mix onto the porous surface of building units is uniform, air content is stable and the strength needed to support loads placed on it is adequate.
<p><u>PREFERRED EMBODIMENT</u></p> <p>The mortar is prel. prep'd. by adding 0.02-0.07 wt. % (I) 0.10-0.20 wt. % sodium or calcium lignosulphonate, 0.35-0.6 wt. % sodium gluconate and 0.001-0.008 wt. % sodium alpha-olefin sulphonate to a mixt. of (I), 200-600 wt. % fine (IV) comg. up to 80 wt. % lime and 25-65 wt. % water.</p>			
<p><u>EXAMPLE</u></p> <p>A mixt. of 0.07 wt. % hydroxypropyl methyl cellulose, 0.175 wt. % sodium lignosulphonate, 0.32 wt. % sodium gluconate and 0.008 wt. % alpha-olefin sulphonate was added to a mixt. of 'Type 1' Portland cement (898 g), masonry lime (100 g) masonry sand (2840) with fineness modulus of 1.81 and half the required water for a water to cement ratio of 0.59. The mortar had 24.00 vol. % air, 125% flow, cane penetration of 68, pliable consistency after 48 h. from mixing and</p>			
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good scratch resistance, workability, cohesiveness and adhesion to brick and block. (36pp 1616KJPDwgN0010)
(E) ISR:- GR2114985; PR1502387; PR1543999; PR2154035;
PR2065402; FR2114734; GB2040907; GB2083016.

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